



# USACE CADD NEWSLETTER



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## CADD Newsletter

This unofficial newsletter, is authorized under the provisions of AR 25-30, and is intended to keep all Corps personnel who are involved in the use and management of CADD informed of CADD related issues throughout the Corps as well as HQUSACE changes and initiatives which will affect the Engineering business process. The Newsletter will be issued electronically on a quarterly basis. Articles on CADD issues with a broad area of interest are solicited from the field. Send all submissions and/or comments to [jean.a.mcgin@usace.army.mil](mailto:jean.a.mcgin@usace.army.mil).

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## CADD/GIS Symposium 2002

This year's CADD/GIS Symposium was held in San Antonio, TX, 19 – 22 August. The Symposium and the Air Force's Pollution Prevention (P2) Conference were co-located at the San Antonio Convention Center. . The combined attendance total was 3464. Of that, 988 were registered for the Geospatial Symposium (549 Government, 144 industry/academia, 2 students, and 381 Exhibitor/vendor/commercial). The Exhibit Hall was a big success. 89 exhibitors identified themselves as CADD exhibitors with an additional 25 who identified themselves as both CADD and P2. The SAC/FAC Committees booth had a Survivors theme and emphasized surviving the A/E/C CADD Standards Implementation. Within the technical tracks, there were over 180 presenters. Slides from the presentations are available on the Center Web Site. There were also 17 workshops. The next Symposium will be held in conjunction with the P2 Conference again in August 2004.

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### **SAC/FAC Committee Meeting at the Symposium**

The members of the SAC and FAC committees who were present at the Symposium held a meeting on 21 August. Topics discussed were ProjectWise Implementation at various districts, the Bentley/ESRI meeting, A/E/C Standards Implementation, and MicroStation V8 Implementation. A copy of the minutes of this meeting can be found on the [ckb.wes.army.mil](http://ckb.wes.army.mil) web site under CADD Groups/Senior Advisory.

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### **The CADD/GIS Technology Center Corporate Staff and Board of Directors Meetings**

: The Center Corporate Staff met at the Mirmar Marine Air Station 11 – 12 July 2002. The primary purpose of the meeting was to develop the proposed FY03 program for the Center from the submitted projects. The Board of Directors met 21 August during the Symposium and approved the proposed program. If you are interested in looking at the projects, they will be posted on the Center web site after the beginning of FY03. Corps submitted projects that were approved for the program were: 1) Scanning Project, 2) Standard Practice for Preparation of As Built CADD Files, 3) Map Organization and Retrieval System, 4) Populate HVAC for TriForma 3D Cell Library and Preference Files to Meet the A/E/C Standard, 5) Geotechnical Database, 6) A/E/C CADD Standard Compliant Drawing Set, 7) Structural Detail Library Additions, and 8) Interior Design Furniture Procurement Software. Projects 1), 2) and 3) are being combined into one project. The Inroads Preference Sets project will be funded by the SAC Committee next year.

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### **Field Action CADD (FAC) Committees**

The names and e-mails of FAC members are no longer listed on the Corps CADD web site (<http://ckb.wes.army.mil>) due to security concerns since 9/11. If you are interested in information about any of the FACs, the names and districts of the chairs are listed below.

**Geotechnical FAC:** Chair Glen Kato, TAC.

**Mechanical/Electrical FAC:** Chair Ken Waldie, Fort Worth.

**Cost FAC:** Chair Gareth Clausen, Walla Walla.

**Structural FAC:** Chair Lorilee Taylor, St. Paul.

**Systems FAC:** Chair John Kincaid, Rock Island. .

**Architectural FAC:** Chair Stan Shirk, Omaha.

**Civil/Site FAC:** Chair Edward Murphy, Fort Worth.

If you are interested in being a POC for your particular discipline for any of these committees, please contact the appropriate chair by e-mail.

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## **SAC Committee Members**

The current SAC Committee members are:

- Larry Rogers, CESWF, Chair
- Art Connolly, CENAN
- John Bailen, CEMVP
- Gerard Satterlee, CEMVN
- Daniel Hitchings, CELRP
- Ralph Barrett, CESAS

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## **Standards Implementation in USACE**

A memorandum was signed by Dwight Beranek and sent out to all MSCs on 21 August 2002, Subject: Architectural, Engineering and Construction (A/E/C) Computer Aided Design and Drafting (CADD) Standards and Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE). An e-mail copy of the memorandum was sent to all MSC and District Chiefs of Engineering. Information on aids to standards implementation is found in Enclosure 1 of the memorandum. If you would like a digital copy of the memorandum contact [jean.a.mcginns@usace.army.mil](mailto:jean.a.mcginns@usace.army.mil).

Why is it important to implement standards?

- The A/E/C CADD Standard supports the Corps' Regional Centers of Expertise Philosophy
- One Standard used throughout the Corps results in time savings on creating and sharing electronic drawings (which results in cost savings to the Corps)
- Enables interoperability between various CADD software packages.
- Gets all CADD designers playing from "the same sheet of music." This makes it possible for different personnel to work on the same file at different times.

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## **Basic and Advanced Spatial Data Standard (SDSFIE) Implementation Workshop**

The next workshop for the implementation of the SDSFIE will be held 3 – 7 February 2003. The basic and advanced workshops can be taken together (sequentially on the above dates) or individually. The fee for the combined course is \$1500; the fee for the individual basic course is \$1000, and for the individual advanced course the fee is \$800. Contact Bobby Carpenter at the Center for Registration.

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## **Center Web Page**

Check the Center Web Page, <http://tsc.wes.army.mil>, from time to time to see information on new releases of products. Some of the current headlines are: Summer Issue of CADD/GIS Insights, SDSFIE/FMSFIE 2.20 Release, Revised AutoCAD Workspace 4.3, Microstation Workspace 2.0.5 update (works with Microstation SE and J), and SDSFIE Implementation Guides for ESRI ArcView 3.2a and AutoCAD MAP.

Check out the Discussion Forums while at the site. Topics for the forums are: A/E/C CADD Standard/Workspace Application, AEC Object Standards, CADD Details Library, Electronic Bid Solicitation, Electronic Document Management System, Facility Mgt Standards Inland Electronic Navigation Chart, InRoads Preference Sets, National Guard Bureau/ITAM, Spatial Data Standards, Standards Committee, Survey Engineering and Monumentation Mgt System. This is a good place to ask and get answers to questions about any of these subjects.

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## **CAD2 Contract, ESRI BPA and Services BPA**

Administration of the CAD2 Contract has been transferred to the Center. The Center has also awarded a BPA to ESRI for all ESRI products and support. The Center is also developing two BPAs for services, which are modeled after the ESRI BPA. The POC for these contracts is John Hood at 601-634-3138.

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## **ProjectWise Users' Group**

The SAC will be forming a Project Wise Users' Group to facilitate the exchange of knowledge and experience with this software. There has been a great deal of interest in using PW for a process/workflow control system over the past years. The formation of this group is the next logical step in sharing information on PW and other similar systems that support engineering efforts. Initially this group will be formed as a sub-group of the Systems FAC since many of the members of the SFAC are also key players in PW implementation throughout the Corps. This Users' Group will be forming up at the beginning of FY03. Look for information on the initial VTC, Place Ware or conference call on <http://ckb.wes.army.mil> or contact John Kincaid, MVR-ED-DM. *Article submitted by John Kincaid, MVR-ED-DM*

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## **Article on Cost and CADD Integration**

On-going discussions and interest in the integration of CADD and Cost Estimating is alive and well. Implementing such integration will be a challenge for designers, estimators, and technology developers. Engineering News Record, August 12, 2002 issue, page 26, published a feature article; Estimating "Finding the Bottom Line Gets A Gradual Lift From Technology". The

sub-heading, "Complex Task Is No Easy Fit for Software Developers" succinctly captures the issue. The first sentence, "Estimating is a complex, high-risk, individualized mixture of art and science, which makes the choice of the tools an estimator uses quite a personal thing." is a great invitation to read this article.

Within the article reference is made to cost savings, "if construction documents were circulated as 3D models built with industry-standard objects, instead of as plans and 2D views". Clearly visionaries within the engineering and construction industry see the value of standard-object three-dimensional design.

I highly recommend designers and estimators to read this article and the brief editorial on page 48 of the same issue. *Article submitted by Gareth Clausen, NWW-ED-C*

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### **SAC Members Retire**

Three SAC members have retired from their positions as Chiefs of Engineering this FY: Brian Doyle of Sacramento, Joe Jacobazzi of Chicago, and Ed Middleton of Jacksonville. Ed Middleton and Brian Doyle have been members of the SAC since its inception in 1995. Ed also served as chair of the group for two years, from 1998-2000. Joe Jacobazzi served on both the SAC and the Center Corporate Staff for the past three years.

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### **Call for Articles**

All but two of the articles in this issue of the Newsletter were written by Jean McGinn, CECW-EE. I would encourage anyone in the field who has CADD related information of general interest to Corps personnel to submit articles (to my e-mail address) for the next issue, which should be issued the end of December 2002.